



# Utah!

Where ideas connect

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GWC  
MAY 07 2003

DAQE-AN0327012-03

May 2, 2003

S. Gale Chapman, President  
Intermountain Power Service Corporation  
850 West Brush Wellman Rd  
Delta, Utah 84624

Dear Mr. Chapman:

RE: Experimental Approval Order To Test Overfire Air System, Millard County  
CDS-A, ATT, NSPS TITLE V  
Project Code: N0327-012

The IPSC initial request, dated April 2, 2003 for approval of the overfire air (OFA) system on the Unit 1 boiler at the Intermountain Generating Station (IGS) was received by the Utah Division of Air Quality (DAQ) on April 9, 2003. The request for an Experimental Approval Order (AO) was so that Intermountain Power Service Corporation (IPSC) could conduct research at the IGS on using OFA to control NO<sub>x</sub> generation from coal combustion and acquire the data needed to modify the current IGS Approval Order and Title V permit.

**Abstract:** Intermountain Power Service Corporation (IPSC) was granted an Experimental Approval Order to demonstrate the effectiveness and to collect data on an overfire air (OFA) system at the Intermountain Generating Station (IGS) in Delta, Utah. The IGS is a coal-fired steam-electric generating plant located in Millard County. IPSC had proposed to install a multi-port OFA air system on Unit 1 to control NO<sub>x</sub> generation from coal combustion. IPSC is now requesting approval to perform additional testing in preparation for the new Maximum Available Control Technology (MACT) standards that the Environmental Protection Agency (EPA) is proposing to implement for utilities. In preparation for the new EPA MACT standards, IPSC will perform several tests including, but not limited to, mercury testing on the OFA system. This testing will be performed to demonstrate the effectiveness of overfire in NO<sub>x</sub> control, as well as data collection that can be used to make a final determination by DAQ in approving the continuous operation of the OFA system. Millard County is an attainment area of the National Ambient Air Quality Standards (NAAQS) for all pollutants. New Source Performance Standards (NSPS), Subpart Da and Subpart Y apply to this source. Boiler Units 1 & 2 are also Group 1, Phase II units under the Acid Rain Program. IPSC is a major source of NO<sub>x</sub>, SO<sub>2</sub>, CO, and PM<sub>10</sub>. Title V of the 1990 Clean Air Act applies to this source.

The Notice of Intent (NOI) for the above-referenced project has been evaluated and has been found to be consistent with the requirements of the Utah Administrative Code (UAC). However, air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

Approval for trial test operation of the overfire air system is hereby granted in accordance with Section 19-2-107 (2)(e) of the Utah Air Conservation Act under the following conditions:

1. The test operation of the overfire air (OFA) system shall only be performed in the Intermountain Generating Station located in Delta, Utah.
2. During the test period the OFA shall only be operated on the Unit 1 boiler.
3. This Experimental Approval Order shall replace the Experimental AO DAQE-AN0327011-03 dated February 14, 2003.
4. The trial test operations of the OFA shall not be performed more than 180 days from the date of this Experimental Approval Order (AO).
5. All requirements of the AO DAQE-049-02, dated January 11, 2002, and the Title V permit 2700010001 shall be adhered to. This Experimental AO does not give approval to violate any conditions in the AO or the Title V permit.
6. The test operation of the OFA system shall be terminated if the emissions and/or opacity limits listed in the AO DAQE-049-02 for the Unit 1 boiler are exceeded.

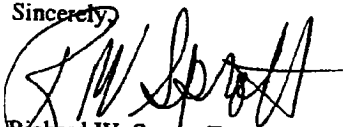
A report describing the results of the test operations of the overfire air system shall be submitted to the Executive Secretary, Utah Air Quality Board, attention New Source Review Section, within 45 days after the project is completed. The report, at a minimum, shall include the emissions measured, the positions of all dampers when the emissions are measured, mass airflow and all other measurements taken that are affected by the OFA system.

The Division of Air Quality does not endorse the products, chemicals or equipment used in this Experimental AO.

The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of this Experimental AO.

If you have any questions on the Experimental Approval conditions, please contact Nando Meli at (801) 536-4052.

Sincerely,



Richard W. Spratt, Executive Secretary  
Utah Air Quality Board

RWS:NM:re

cc: Millard County District Health Department